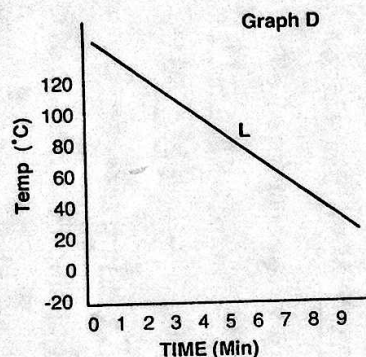
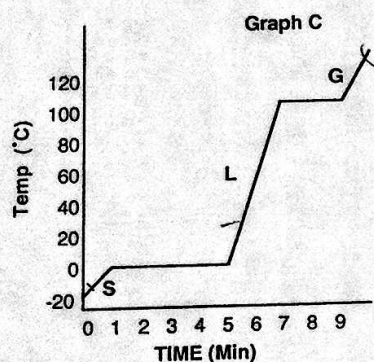
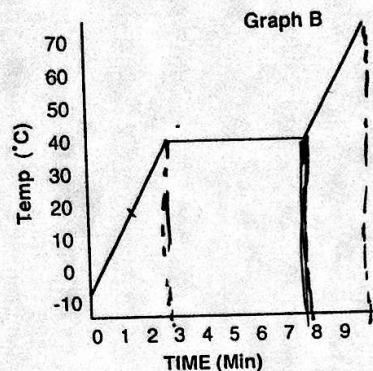
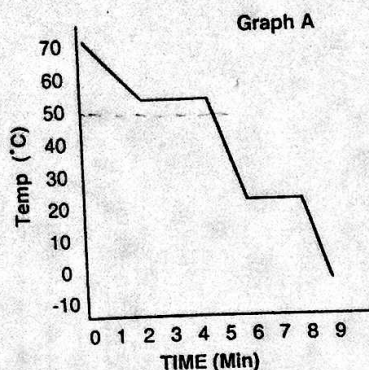


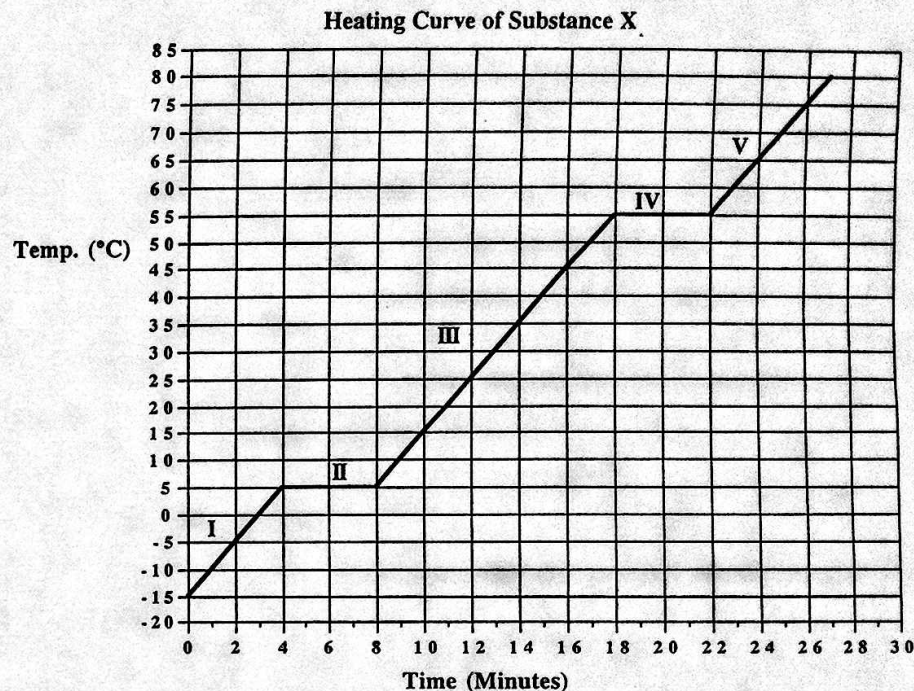
HEATING AND COOLING CURVE REVIEW



- 1) In graph A, what phases are present at 50 °C? LIQUID
- 2) How many phase changes take place in graph B? 1
In graph C? 2 What phase changes take place in graph D? NONE
- 3) In graph B, during what time interval is the substance entirely a solid? 0-3 MIN
A liquid? 8-10 min
- 4) What graph could represent pure water? C
- 5) Are any of the substances the same? NO How do you know? DIF M.P. & B.P.
- 6) At what time in graph B has the substance just finished melting? 8 MIN

CHEMISTRY

HEATING CURVE WORKSHEET



The heating curve shown above is a plot of temperature vs time. It represents the heating of substance X at a constant rate of heat transfer. Answer the following questions using this heating curve:

- I 1. In what part of the curve would substance X have a definite shape and definite volume?
- III 2. In what part of the curve would substance X have a definite volume but no definite shape?
- V 3. In what part of the curve would substance X have no definite shape or volume?
- II 4. What part of the curve represents a mixed solid/liquid phase of substance X?
- N 5. What part of the curve represents a mixed liquid/vapor phase of substance X?
- 5°C 6. What is the melting temperature of substance X?
- 55°C 7. What is the boiling temperature of substance X?